

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1008598

Luminaire Tested: S122DIP-B1005D330UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008598
REPORT IS A COMBINATION OF REPORTS P983605 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB30-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

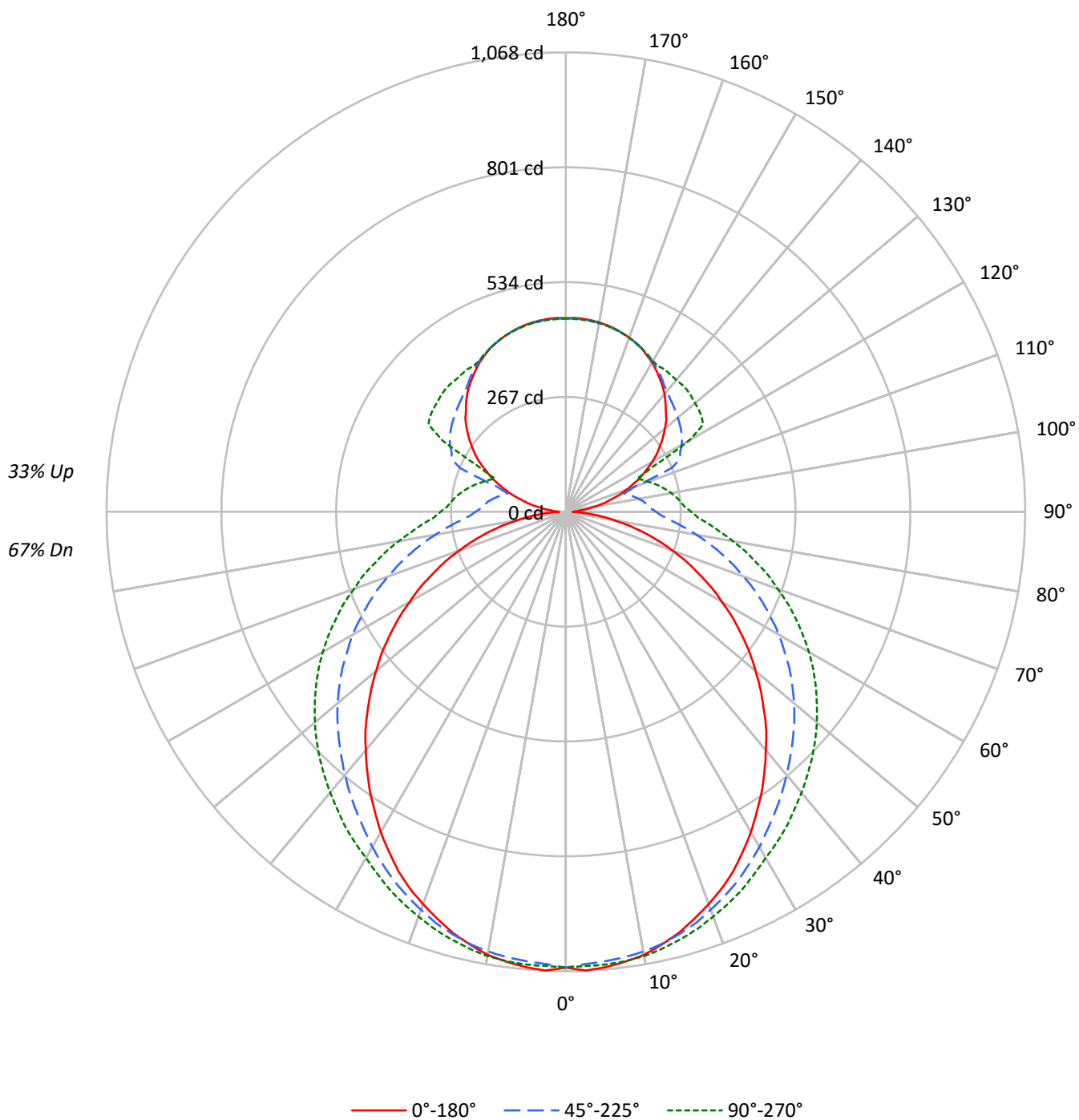
Lumens per Lamp: N/A
Luminaire Lumens: 5362.9 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93		82	82	82		72	72	72	67
1	100	94	90	85	93	89	85	81	78	75	72		69	67	64		60	58	57	52
2	90	81	74	68	84	77	70	65	68	63	58		59	56	52		52	49	46	42
3	82	71	62	56	76	67	59	53	59	53	48		52	47	43		45	42	38	35
4	74	62	53	47	69	59	51	45	52	46	40		46	41	36		40	36	33	29
5	68	55	46	40	64	52	44	38	46	40	35		41	36	31		36	32	28	25
6	63	50	41	34	59	47	39	33	42	35	30		37	31	27		33	28	25	22
7	58	45	36	30	54	42	34	29	38	31	26		34	28	24		30	25	22	19
8	54	41	32	26	50	38	31	25	34	28	23		31	25	21		27	23	19	17
9	50	37	29	24	47	35	28	23	32	25	21		28	23	19		25	21	17	15
10	47	34	26	21	44	32	25	20	29	23	19		26	21	17		23	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16776	16776	16776
5°	16852	16061	15970
10°	16739	15504	15278
15°	16503	14928	14568
20°	16206	14325	13895
25°	15911	13746	13284
30°	15499	13158	12680
35°	15081	12591	12236
40°	14643	12101	11794
45°	14224	11657	11410
50°	13774	11247	11030
55°	13302	10812	10643
60°	12723	10358	10237
65°	12122	9838	9768
70°	11442	9278	9266
75°	10567	8720	8791
80°	9197	8135	8300
85°	7811	7586	7873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.9
10°-20°	288.2	5.4
20°-30°	436.6	8.1
30°-40°	531.7	9.9
40°-50°	572.0	10.7
50°-60°	555.5	10.4
60°-70°	485.2	9.0
70°-80°	373.4	7.0
80°-90°	250.9	4.7
90°-100°	187.4	3.5
100°-110°	181.3	3.4
110°-120°	229.8	4.3
120°-130°	289.5	5.4
130°-140°	277.7	5.2
140°-150°	243.3	4.5
150°-160°	193.0	3.6
160°-170°	124.3	2.3
170°-180°	42.8	0.8
0°-30°	825.2	15.4
0°-40°	1356.9	25.3
0°-60°	2484.5	46.3
0°-90°	3594.0	67.0
90°-120°	598.4	11.2
90°-150°	1408.9	26.3
90°-180°	1769.0	33.0
0°-180°	5362.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1058	1049	1058	1057	101
15°	1014	1017	1017	1031	1029	286
25°	922	932	946	965	969	424
35°	794	820	849	883	894	496
45°	651	693	746	794	810	503
55°	499	554	634	690	710	447
65°	341	416	507	570	590	339
75°	189	275	373	439	459	200
85°	55	150	249	313	335	58
90°	16	108	209	272	291	12
95°	33	95	189	249	267	35
105°	107	161	152	209	228	114
115°	193	216	293	188	182	190
125°	268	272	327	371	386	239
135°	329	334	352	388	399	254
145°	380	379	385	396	402	238
155°	418	415	419	421	418	193
165°	440	439	440	442	440	124
175°	451	448	449	451	448	43
180°	450	450	450	450	450	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.5	1062.9	1052.2	1059.8	1056.8
5°	1062.9	1058.3	1049.1	1058.3	1056.8
7.5°	1055.2	1052.2	1044.5	1055.2	1053.7
10°	1046.0	1042.9	1038.3	1050.6	1049.1
12.5°	1030.7	1032.2	1029.1	1041.4	1039.9
15°	1013.8	1016.8	1016.8	1030.7	1029.1
17.5°	992.3	998.4	1003.0	1016.8	1016.8
20°	970.8	978.4	984.6	1001.5	1001.5
22.5°	947.7	956.9	966.1	983.0	986.1
25°	921.6	932.4	946.2	964.6	969.2
27.5°	890.9	907.8	923.1	946.2	949.3
30°	860.2	880.1	900.1	924.7	929.3
32.5°	826.4	849.4	874.0	903.2	912.4
35°	794.1	820.2	849.4	883.2	894.0
37.5°	758.8	788.0	824.8	861.7	872.5
40°	723.5	757.3	798.7	838.7	852.5
42.5°	689.7	723.5	772.6	817.2	831.0
45°	651.3	692.7	746.5	794.1	809.5
47.5°	614.4	658.9	720.4	769.5	786.4
50°	576.0	623.6	692.7	745.0	761.9
52.5°	539.1	589.8	663.6	717.3	735.7
55°	499.2	554.5	634.4	689.7	709.6
57.5°	460.8	522.2	602.1	662.0	682.0
60°	419.3	485.4	572.9	631.3	652.8
62.5°	382.5	451.6	539.1	602.1	622.1
65°	341.0	416.3	506.9	569.9	589.8
67.5°	304.1	382.5	474.6	537.6	559.1
70°	264.2	344.1	439.3	505.3	523.8
72.5°	227.3	310.3	407.0	471.6	494.6
75°	188.9	274.9	373.3	439.3	459.3
77.5°	152.1	241.2	341.0	407.0	428.5
80°	115.2	208.9	308.7	373.3	394.8
82.5°	84.5	176.6	278.0	342.5	362.5
85°	55.3	150.5	248.8	313.3	334.8
87.5°	33.8	126.0	224.3	287.2	307.2
90°	15.7	108.3	209.3	272.3	291.4
92.5°	21.9	102.0	196.7	257.3	276.1
95°	33.4	94.9	189.3	249.3	267.4
97.5°	48.9	88.2	182.5	240.3	259.1
100°	68.4	80.6	172.1	231.5	249.1
102.5°	88.3	138.3	162.0	220.9	238.8
105°	106.6	160.9	151.9	209.3	227.5
107.5°	129.7	174.6	141.8	197.7	215.9
110°	150.2	187.9	169.0	185.7	203.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.1	201.5	266.7	175.6	193.4
115°	193.2	215.6	292.9	188.3	181.8
117.5°	210.9	229.7	299.7	299.3	229.3
120°	232.4	243.4	310.7	357.6	330.6
122.5°	250.6	257.3	320.7	364.0	378.3
125°	267.6	271.8	327.1	370.9	385.7
127.5°	284.5	287.5	333.9	375.5	389.7
130°	300.5	304.1	340.0	380.4	392.3
132.5°	316.7	319.4	346.1	384.3	396.3
135°	328.8	334.0	352.3	387.9	399.4
137.5°	343.1	347.0	358.0	390.4	400.3
140°	357.1	358.2	364.9	392.3	400.0
142.5°	368.8	369.6	373.8	394.8	400.9
145°	379.7	379.4	384.9	396.4	402.5
147.5°	390.4	389.5	395.0	398.1	401.4
150°	400.8	398.6	403.8	405.7	404.1
152.5°	409.6	407.0	411.9	413.9	411.6
155°	418.1	415.2	419.1	421.0	418.4
157.5°	424.9	422.3	425.2	427.5	424.9
160°	430.8	428.8	430.8	432.7	430.5
162.5°	436.0	434.0	435.7	437.9	435.0
165°	440.5	438.6	439.6	441.8	439.6
167.5°	444.1	442.2	443.1	445.4	442.5
170°	447.0	445.1	445.7	448.0	445.1
172.5°	449.0	447.0	447.7	450.0	447.0
175°	450.6	448.3	449.0	451.3	448.0
177.5°	451.3	449.0	449.3	451.6	448.7
180°	449.6	449.6	449.6	449.6	449.6

(END OF REPORT)